

engineered efficiency

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“Efficiency Through Analysis”

Helping Australian companies streamline their processes and drive down costs.

Case Study – Technician training rigs for North Regional TAFE

Engineered Efficiency recently completed the design and manufacture of 6 training rigs for North Regional TAFE. The rigs are designed to provide the students with exposure to a large range of industrial instrument types and also provide opportunities for set-up, calibration and troubleshooting as part of a structured curriculum.



Each rig features a water tank on the bottom level complete with a submersible pump. The water is pumped from the tank to an acrylic column on the top level of the rig. The pipework between the pump and the column contains a flow meter device and a flow control valve. Each of the columns has 2 different types of level measuring device. The flow meter is different on all 6 rigs and there are three different types of flow control valve across the 6 rigs. Each instrument is set up to be able to send a 4 – 20mA signal to a PLC or other control device.

The project was awarded mid-December with a very tight 8-week schedule (which included the Christmas break) as the TAFE required the rigs to be delivered for the start of Semester 1 2018. *Engineered Efficiency* were able to deliver all rigs on time and they were assembled and commissioned on site in less than two days.

About Us

Engineered Efficiency is a Western Australian business focussed on helping small to medium companies streamline their production and maintenance processes and reduce input costs from utilities and reagents. We do this through working closely with our customers to understand their business needs and processes and apply our experience and knowledge to provide practical and fit-for-purpose solutions.

Our Director, Jon Langford, has over 20 years experience in design, construction and maintenance of process plants and commercial buildings. Jon started Altrum Pty Ltd in 2002, providing process engineering, chemical manufacturing and storage, and heat transfer solutions across Australia.



Jeff Hughes Director, Mechanical and Projects, is a mechanical engineer with over 20 years of experience on projects for the mineral processing, utilities and chemical industries. He has extensive experience managing multidiscipline engineering teams on all phases of projects from scoping studies through to construction and commissioning.